

EAST GREENWICH WWTF

In 1929 on the banks of Greenwich Cove in East Greenwich, workers completed the construction of one of Rhode Island's first wastewater treatment facilities. Upgraded over time, the town built an entirely new, state-of-the-art wastewater facility using "Rotating Biological Contactors," or "RBC's" as they are commonly known, in 1988. Unlike conventional activated sludge plants, RBC's use thousands of large-surface-area plates that are rotated within the wastewater stream; they provide a home for pollution-reducing bacteria. Six operators and mechanics staff the facility. Still located on Spring Street, the facility discharges into Greenwich Cove.



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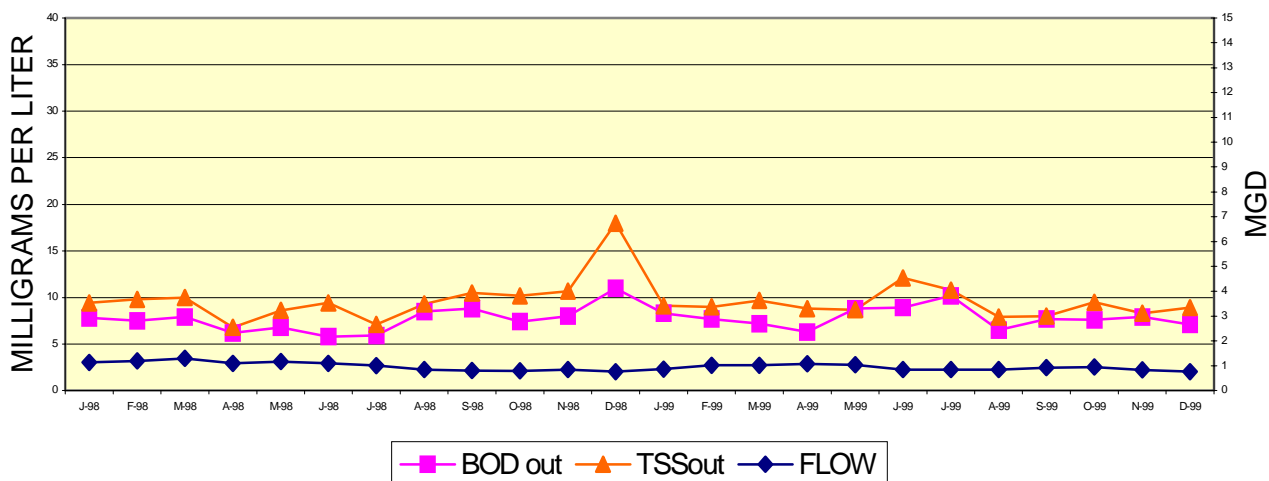
CURRENT AND FUTURE CONCERNS

The RIDEM reissued East Greenwich's permit on February 25, 2000. The new permit includes water quality based limits for total residual chlorine, copper and a toxicity-based limit for fluoride. A Consent Agreement will be entered into to provide the town with time to upgrade the plant to attain compliance with its new limits. In addition, RIDEM is currently developing a water quality restoration plan to address low oxygen levels in Greenwich Bay. It is anticipated that the permit will be modified to include a limit for total nitrogen.

Overall Treatment: Excellent

Having only one monthly violation for flow in March 1998 and none for BOD, TSS or fecal coliform, East Greenwich received a rating of Excellent.

EAST GREENWICH EFFLUENT DATA - 1998/1999



BEGAN OPERATION 1929

ANNUAL SURVEY

PARAMETER	1996	1997	1998	1999	PERMIT LIMIT	VIOLATIONS 1998/1999
FLOW (MGD)	0.9	0.9	1.01	0.9	1.24	1/0
BOD INFLUENT (MG/L)	75.9	102.7	100.3	122.2		
BOD EFFLUENT (MG/L)	8.8	6.3	7.6	7.9	30/15	0/0
BOD INFLUENT (LBS./DAY)	585.9	742.2	823.0	936.4		
BOD EFFLUENT (LBS./DAY)	67.8	45.6	62.9	60.0		
BOD % REMOVAL	88.4	93.8	92.4	93.6		
TSS INFLUENT (MG/L)	94.2	103.7	110.3	120		
TSS EFFLUENT (MG/L)	8.2	6.7	10.0	9.2	30/15	0/0
TSS INFLUENT (LBS./DAY)	721.1	749.9	916.5	920.7		
TSS EFFLUENT (LBS./DAY)	62.8	47.9	81.8	70.7		
TSS % REMOVAL	91.2	93.8	91.1	92.3		
FECAL COLIFORM (MPN/100ML)	8.1	4.2	7.0	5.0	200.0	0/0
CHLORINE RESIDUAL (MG/L)			1.1	1.2	2.0*	0/0

*Daily Maximum Limit

Operations & Maintenance

A state-of-the-art control system has been placed in service and is approximately 90% operational. The Town of East Greenwich has completed the construction of an addition to the sewer collection system, which has added 125 new users to the East Greenwich facility.

1998 O&M Rating: 10 out of 10

1999 O&M Rating: 10 out of 10

1998 Laboratory Rating: 5 out of 5

1999 Laboratory Rating: 5 out of 5

Overall O&M Rating: Excellent

1998 SLUDGE DISPOSAL METHOD

Incineration (NETCO)

SLUDGE PRODUCED

119 DRY TONS

1999 SLUDGE DISPOSAL METHOD

Incineration (NETCO)

SLUDGE PRODUCED

111 DRY TONS

Sludge generated by the facility is transported in liquid form to the NETCO-operated incinerator in Woonsocket for disposal.

EAST GREENWICH 1986-1999 DATA

